

Appl. No. 10/015,993  
Amendment dated February 12, 2007  
Reply to Office Action mailed October 12, 2006

Attorney Docket No. BP 1989

RECEIVED  
CENTRAL FAX CENTER  
FEB 12 2007

### REMARKS/ARGUMENTS

The Specification is amended to correct a reference numeral.

In the above referenced Office Action, the Examiner rejected claims 1- 4, 8-10, 13, 15-17, 21-22, 27-29, 33-37 under 35 USC § 103 (a) as being unpatentable over Petty (U.S. Patent No. 5,187,722) in view of Fan (U.S. Patent Application No. 2002/0121938) further in view of Lim et al (U.S. Patent No. 7,092,722). In addition, the Examiner has objected to claims 5-7, 11, 12, 14, 18-20, 23-26, 30-32, 34, and 38-40 as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The independent claims are amended, not to overcome the above rejection, but to clarify differences between the cited art and the claimed invention as will be explained below.

Lim et al. is provided for the teaching of first and second feedback paths to allow for coarse and fine tuning to reduce noise sensitivity. The Official Action cites col. 3, ll. 5-26, col. 62 l. 57 – col. 63, l. 14) is support therefor.

The Applicant does not believe that Lim et al. teach the claimed invention as presently constituted. Lim et al. teach that the Local Oscillator Circuitry 222, for example, provides a local oscillation (LO) at an intermediate frequency (IF) for transmitter operations and an LO at radio frequency for upconversion of transmit signals and down conversion of receive signals. The Applicant refers to Figures 2 and 4 of Lim et al. in support therefor. Moreover, with respect to Figure 2, Lim et al. states “local oscillator circuitry 222 produces an RF local oscillator signal 224 ... to receiver analog circuitry 208 and to the transmitter circuitry 216. The local oscillator circuitry 222 also produces a transmitter intermediate-frequency (IF) local oscillator signal 226 ... to the transmitter circuitry 216”. See col. 6, ll. 45-51. Clearly, Lim et al. are providing different frequency oscillations to different circuit elements for different purposes.

The claims of the present application, however, require selection between two divider values produced by two feedback paths based, at least in part, upon a divider value produced by one of the two feedback paths. Each independent claim has been amended to clarify this operation by requiring a step or logic for generating a select signal to select between divider

Appl. No. 10/015,993  
Amendment dated February 12, 2007  
Reply to Office Action mailed October 12, 2006

Attorney Docket No. BP 1989

values produced by first and second feedback paths as a part of generating the feedback frequency based, at least in part, a divided value that is produced by the first feedback path.

Lim et al. do not choose between two feedback paths. Further, Lim et al. do not choose between the two feedback paths based upon a value in one of the feedback paths. The applicant further notes that Lim et al. teach that the two feedback paths provide different signals to different locations for different purposes. The claimed invention, however, provides one of two values to a single feedback path. This is inherent in selecting between the divider values produced in the two feedback paths.

Because each independent claim is amended, it is believed that the grounds for rejection are moot and will not be addressed further. For the foregoing reasons, the applicant believes that claims 1-41 are in condition for allowance and respectfully request that they be passed to allowance.

If any issues arise, or if the Examiner has any suggestions for expediting allowance of this Application, the Applicant respectfully invites the Examiner to contact the undersigned at the telephone number indicated below or at *jharrison@texaspatents.com*.

The Commissioner is hereby authorized to charge any additional fees connected with this communication or credit any overpayment to Garlick Harrison & Markison Deposit Account No. 50-2126 (reference docket BP1989).

RESPECTFULLY SUBMITTED,

Date: February 12, 2007

By: /James A. Harrison/Reg. No. 40,401  
James A. Harrison  
Attorney for Applicant

**Garlick Harrison & Markison**  
P.O. Box 160727  
Austin, Texas 78716  
(214) 902-8100/office  
(214) 902-8101/facsimile